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## **CHAPTER 1: INTRODUCTION**

### ***1.1 U8798 GRAND FEATURES***

#### **A. Hardware**

##### **CPU**

- Supports Socket 478.
- Supports Intel Pentium 4 Processor.
- Supports Intel Pentium 478-pin Prescott CPU.
  - 533FSB with 1024KB L2 Cache
  - Celeron D (533 FSB with 256KB L2 Cache)
  - 800 FSB with 1024KB L2 Cache up to 3.2GHz.
- Supports Intel Hyper-Threading Technology.
- Front Side Bus at 400/533MHz.
- Front Side Bus 800MHz is by overclocking

##### **Chipset**

- North Bridge: P4X533CD
- South Bridge: VT8235CE

##### **Main Memory**

- Supports up to 2 DDR devices.
- Supports 266/333MHz DDR devices.
- 400MHz DDR is supported by overclocking.
- Maximum memory size is 2GB.

##### **Super I/O**

- Chip: ITE IT8705AF.
- Provides the most commonly used legacy Super I/O functionality.
- Environment Control initiatives,
  - H/W Monitor
  - Fan Speed Controller (optional)
  - ITE's "Smart Guardian" function
- Meet the "Microsoft PC98 & PC99 System Design Guide" requirements.

##### **Slots**

- 5 32-bit PCI bus master slots.
- 1 AGP 4x/8x compatible slot.
- 1 CNR slot (optional).

##### **On Board IDE**

- Supports 4 IDE disk drives.
- Supports PIO mode 0~4, Block Mode and Ultra DMA 33/66/100/133 bus master mode.

##### **LAN PHY**

- PHY: VIA VT6103L
- Supports 10 Mb/s and 100 Mb/s auto-negotiation.

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- Half/Full duplex capability.
- Supports ACPI/PCI power management

### On Board AC'97 Sound Codec

- Chip: C-Media CMI9761A
- Compliant with AC'97 specification.
- Supports SPDIF out function (optional).
- Supports 6 channels.
- Supports stereo microphone.

### Serial ATA (With SB VT8237CD only)

- Integrated in South Bridge VT8237
- Supports RAID 0, RAID 1.
- Supports 2 serial ATA (SATA) ports,
  - Compliant with SATA 1.0 spec.
  - Data transfer rate up to 150 MB/s.

### On Board Peripherals

#### a. Rear side

- 1 parallel port.
- 1 audio ports in vertical.
- 1 RJ-45 LAN jack.
- 1 PS/2 keyboard and 1 PS/2 mouse port.
- 1 serial port (COM2 is optional).
- 2 USB 2.0 ports.
- 4 USB 2.0 ports are supported by SB VT8237CD.

#### b. Front Side

- 1 floppy port supports 2 FDDs with 360K, 720K, 1.2M, 1.44M and 2.88Mbytes.
- 1 S/PDIF out header (optional)
- 1 Front audio header
- 1 Front panel header.
- 4 USB2.0 ports.

### Dimensions

- ATX Form Factor: 19.9 x 29.3 cm (W x L)

## B. BIOS & Software

### BIOS

- Award legal BIOS.
- Supports APM1.2.
- Supports ACPI.
- Supports USB Function.

### Software

- Supports Warpspeeder™, 9th Touch™, WINFLASHER™ and FLASHER™.
- Offers the highest performance for Windows 98 SE, Windows 2000, Windows Me, Windows XP, SCO UNIX etc.

## *U8798 GRAND*

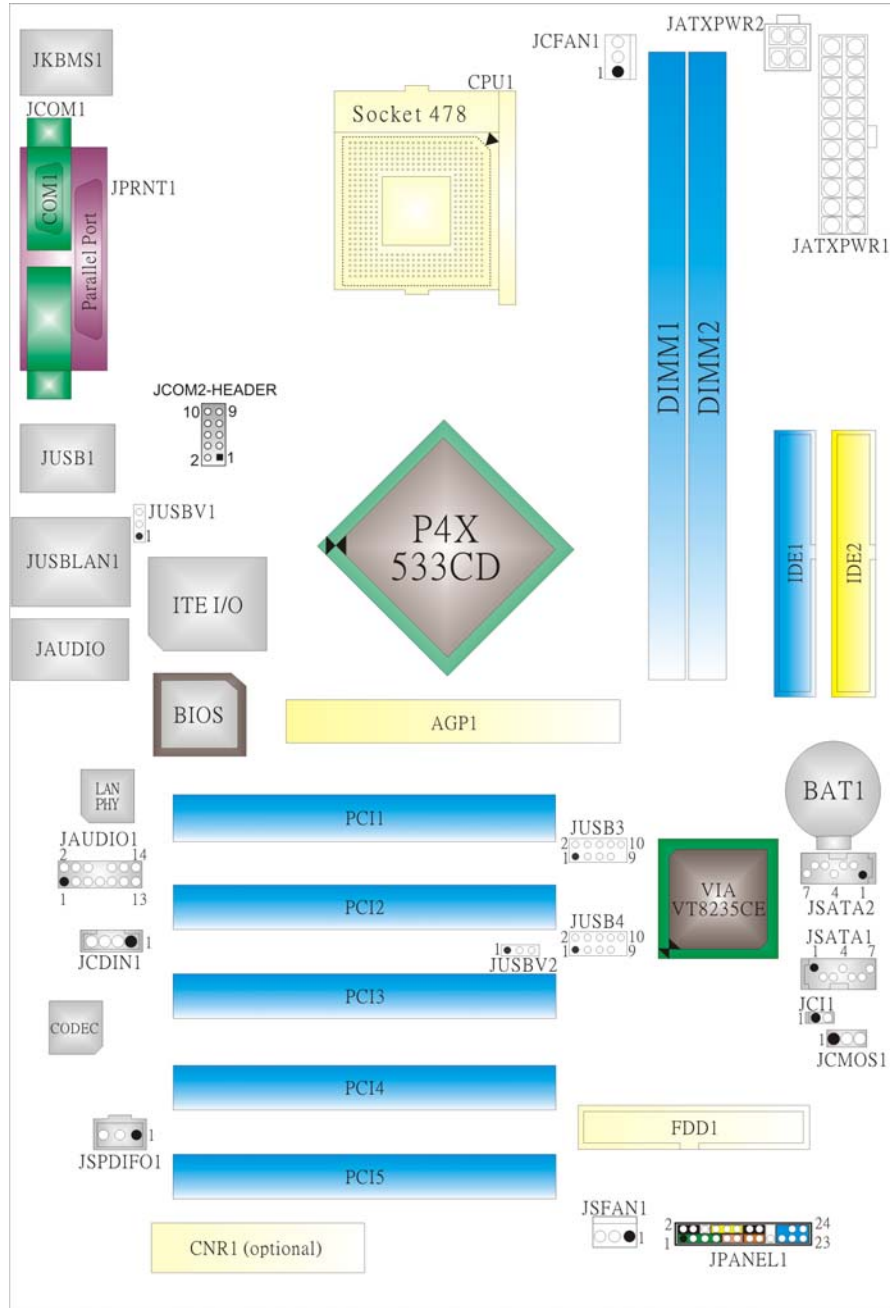
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### **1.2** *PACKAGE CHECKLIST*

- FDD Cable x 1
- HDD Cable x 1
- User's Manual x 1
- Fully Setup Driver CD x 1
- USB 2.0 Cable x1 (optional)
- Serial ATA Cable x 2 (optional)
- S/PDIF Out Cable x 1 (optional)
- Rear I/O Panel for ATX Case x 1

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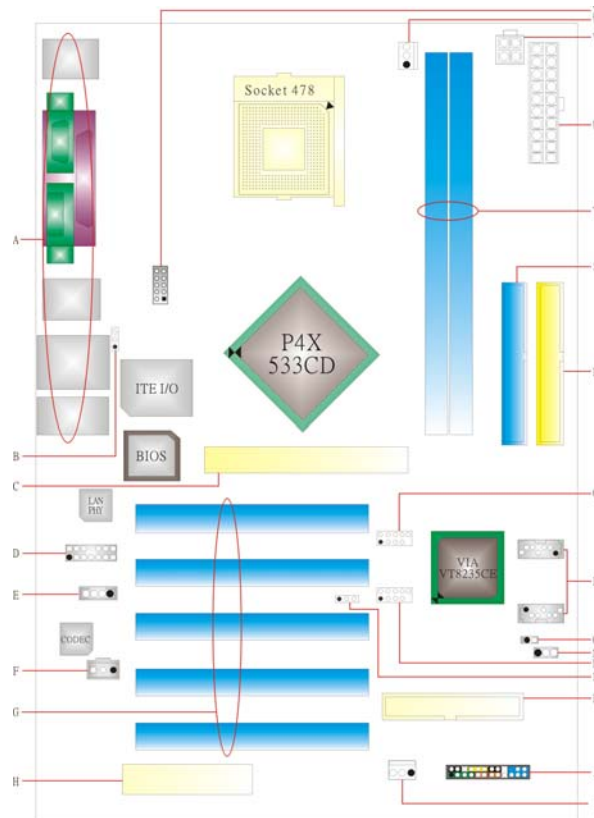
### 1.3 LAYOUT OF U8798 GRAND



Note: ● represents the 1<sup>st</sup> pin.

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### 1.4 COMPONENTS OF U8798 GRAND

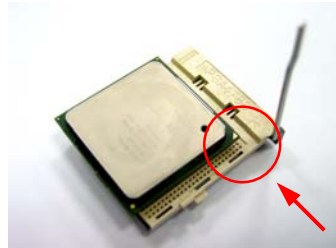


- |   |   |
|---|---|
| <b>A.</b> Back Panel Connectors   | <b>M.</b> Front USB Header (JUSB4)                                |
| <b>B.</b> JUSBV1: Power Source Selection for JUSB1 & PS/2 keyboard/mouse. | <b>N.</b> Clear CMOS Jumper (JCMOS1)                              |
| <b>C.</b> Accelerated Graphics Port Slot (AGP1)                           | <b>O.</b> Case Open Connector (JCI1)                              |
| <b>D.</b> Front Panel Audio Header (JAUDIO1)                              | <b>P.</b> Serial ATA Connectors (JSATA1-2) (for SB VT8237CD only) |
| <b>E.</b> CD-ROM Audio-In Header (JCDIN1)                                 | <b>Q.</b> Front USB Header (JUSB3)                                |
| <b>F.</b> Digital Audio Connector (JSPDIFO1) (optional)                   | <b>R.</b> Hard Disk Connectors (IDE1-2)                           |
| <b>G.</b> Peripheral Component Interconnect Slots (PCI 1-5)               | <b>S.</b> DDR DIMM Modules (DIMM1-2)                              |
| <b>H.</b> Communication Network Riser Slot (CNR1) (optional)              | <b>T.</b> ATX Power Connector (JATXPWR1)                          |
| <b>I.</b> System Fan Header (JSFAN1)                                      | <b>U.</b> ATX Power Connector (JATXPWR2)                          |
| <b>J.</b> Front Panel Connector (JPANEL1)                                 | <b>V.</b> CPU Fan Header (JCFAN1)                                 |
| <b>K.</b> Floppy Disk Connector (FDD1)                                    | <b>W.</b> JCOM2-Header: COM2 Header (optional).                   |
| <b>L.</b> USB Connector Power Source (JUSBV2)                             |   |

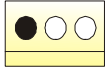
## CHAPTER 2: HARDWARE INSTALLATION

### 2.1 CENTRAL PROCESSING UNIT (CPU)


- Step 1:** Pull the lever sideways away from the socket and then raise the lever up to a 90-degree angle.
- Step 2:** Look for the white dot/cut edge. The white dot/cut edge should point wards the lever pivot. The CPU will fit only in the correct orientation.
- Step 3:** Hold the CPU down firmly, and then close the lever to complete the installation.
- Step 4:** Put the CPU Fan on the CPU and buckle it. Connect the CPU FAN power cable to the JCFAN1. This completes the installation.



#### CPU Fan Header: JCFAN1

1		JCFAN1	Pin	Assignment
			1	Ground
			2	+12V
			3	FAN RPM rate sense

#### System Fan Header: JSFAN1

1		JSFAN1	Pin	Assignment
			1	Ground
			2	+12V
			3	FAN RPM rate sense

**Note:**

The JCFAN1 and JSFAN1 support system-cooling fan with +12V. It supports 3-pin head connector. When connecting with wires onto connectors, please note that the red wire is the positive and should be connected to +12V, and the black wire is Ground and should be connected to GND.



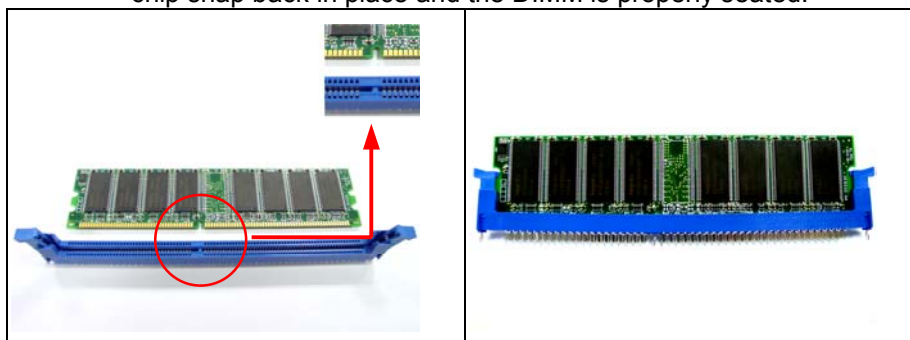
## 2.2 MEMORY MODULES

- Supports up to 2 DDR devices.
- Supports 200/266/333 MHz DDR devices.
- Maximum memory size is up to 2 GB.

DIMM Socket Location	DDR Module	Total Memory Size (MB)
DIMM1	128MB/256MB/512MB/1GB *1	Max is 2 GB.
DIMM2	128MB/256MB/512MB/1GB *1	

### DDR Module installation

1. Unlock a DIMM slot by pressing the retaining clips outward. Align a DIMM on the slot such that the notch on the DIMM matches the break on the Slot.
2. Insert the DIMM vertically and firmly into the slot until the retaining chip snap back in place and the DIMM is properly seated.



## 2.3 JUMPERS, HEADERS, CONNECTORS, & SLOTS

### Floppy Disk Connector: FDD1

The motherboard provides a standard floppy disk connector that supports 360K, 720K, 1.2M, 1.44M and 2.88M floppy disk types. This connector supports the provided floppy drive ribbon cables.

### Hard Disk Connectors: IDE1~2

The motherboard has a 32-bit Enhanced PCI IDE Controller that provides PIO Mode 0~5, Bus Master, and Ultra DMA 33/ 66/ 100 functionality. It has two HDD connectors IDE1 (primary) and IDE2 (secondary).

The IDE connectors can connect a master and a slave drive, so you can connect up to four hard disk drives. The first hard drive should always be connected to IDE1.

### Peripheral Component Interconnect Slots: PCI 1~5

This motherboard is equipped with 5 standard PCI slots. PCI stands for Peripheral Component Interconnect, and it is a bus standard for

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expansion cards. This PCI slot is designated as 32 bits.

### **Accelerated Graphics Port Slot: AGP1**

Your monitor will attach directly to that video card. This motherboard supports video cards for PCI slots, but it is also equipped with an Accelerated Graphics Port (AGP). An AGP card will take advantage of AGP technology for improved video efficiency and performance, especially with 3D graphics.



### **Communication Network Riser Slot: CNR1 (Optional)**

The CNR specification is an open Industry Standard Architecture, and it defines a hardware scalable riser card interface, which supports modem only.

### **Serial ATA Connector: JSATA1~2 (With SB VT8237CD only)**

The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and with transfer rate of 1.5Gb/s.

### **Power Source Selection for JUSB1, PS/2 Keyboard/Mouse: JUSBV1**

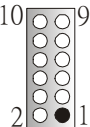
JUSBV1	Assignment	Description
 Pin 1-2 close	+5V	+5V for JUSB1 and PS/2 keyboard / mouse.
 Pin 2-3 close	+5V Standby Voltage	JUSB1 and PS/2 keyboard/mouse are powered with +5V standby voltage.

#### **Note:**

In order to support this function “Power-on system via keyboard and mouse”, “JUSBV1” jumper cap should be placed on Pin 2-3.

### **COM2 Header: JCOM2-Header (Optional)**

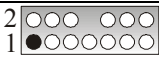
This header allows user to connect additional serial cable on the PC back panel. It can be used to connect serial devices, for example, mouse or modem.

				JCOM2-Header			
Pin	Assignment	Pin	Assignment	Pin	Assignment	Pin	Assignment
1	RIN1	2	RIN3	1		1	
3	DOUT2	4	DOUT3	2		2	
5	Ground	6	RIN2	3		3	
7	DOUT1	8	RIN4	4		4	
9	-XRI1	10	NA	5		5	

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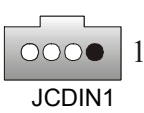
### Front Panel Audio Out Header: JAUDIO1

This connector allows user to connect with the front audio out put headers on the PC front panel. It will disable the output on back panel audio connectors.

				JAUDIO1			
Pin	Assignment	Pin	Assignment	Pin	Assignment	Pin	Assignment
1	Mic in/center	2	Ground	3	Mic power/Bass	4	Audio power
5	Right line out/Speaker out Right	6	Right line out/Speaker out Right	7	Reserved	8	Key
9	Left line out/Speaker out Left	10	Left line out/Speaker out Left	11	Right line in/Rear speaker Right	12	Right line in/Rear speaker Right
13	Left line in/Rear speaker Left	14	Left line in/Rear speaker Left				


### CD-ROM Audio-in Header: JCDIN1

This connector allows user to connect the audio source from the variety devices, like CD-ROM, DVD-ROM, PCI sound card, PCI TV turner card etc..

	Pin	Assignment
	1	Left channel input
	2	Ground
	3	Ground

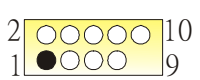
### Digital Audio Out Connector: JSPDIFO1 (Optional)

This connector allows user to connect the PCI bracket SPDIF output header.

	Pin	Assignment
	1	+5V
	2	SPDIF OUT



### Front USB Header: JUSB3~4

This connector allows user to connect additional USB cables on the PC front panel. Also can be connected with internal USB devices, like USB card reader.

	Pin	Assignment	Pin	Assignment
	1	+5V (fused)	2	+5V (fused)
	3	USB-	4	USB-
	5	USB+	6	USB+
	7	Ground	8	Ground
	9	Key	10	NC

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### Power Source Selection for USB: JUSBV2

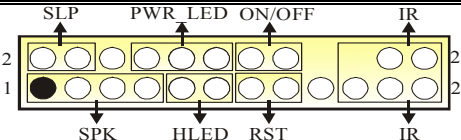
JUSBV2	Assignment	Description
 Pin 1-2 close	+5V	+5V for USB located at the JUSB3~4 port connectors
 Pin 2-3 close	+5V standby Voltage	JUSB3~4 ports are powered with standby voltage of +5V

#### Note:

In order to support this function “Power-o system via USB device,” “JUSBV2” jumper cap should be placed on Pin 2-3 individually.

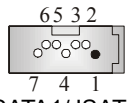
### Front Panel Connector: JPANEL1

This 24-pin connector includes Power-on, Reset, HDD LED, Power LED, Sleep button, speaker and IrDA Connection. It allows user to connect the PC case’s front panel switch functions.

					
Pin	Assignment	Function	Pin	Assignment	Function
1	+5V	Speaker Connector	2	Sleep control	Sleep button
3	N/A		4	Ground	
5	N/A		6	N/A	N/A
7	Speaker		8	Power LED (+)	Power LED
9	HDD LED (+)	Hard drive LED	10	Power LED (+)	
11	HEE LED (-)		12	Power LED (-)	
13	Ground	Reset button	14	Power button	Power-on button
15	Reset control		16	Ground	
17	N/A		18	Key	
19	N/A	IrDA Connector	20	Key	IrDA Connector
21	+5V		22	Ground	
23	IRTX		24	IRRX	

### Serial ATA connector JSATA1~2 (With SB VT8237CD only)



The motherboard has a PCI to SATA Controller with 2 channels SATA interface, it satisfies the SATA 1.0 spec and with transfer rate of 1.5Gb/s.

 JSATA1/JSATA2	Pin	Assignment	Pin	Assignment
	1	Ground	2	TX+
	3	TX-	4	Ground
	5	RX-	6	RX+
	7	Ground		

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### Clear CMOS Jumper: JCMOS1

By placing the jumper on pin2-3, it allows user to restore the BIOS safe setting and the CMOS data, please carefully follow the procedures to avoid damaging the motherboard.



JCMOS1			Assignment
1		3	Pin 1-2 close
1		3	Pin 2-3 close
			Normal Operation (Default).
			Clear CMOS data.

#### ※ Clear CMOS Procedures:

1. Remove AC power line.
2. Set the jumper to "Pin 2-3 close".
3. Wait for five seconds.
4. Set the jumper to "Pin 1-2 close".
5. Power on the AC.
6. Reset your desired password or clear the CMOS data.

### Case Open Connector: JCI1

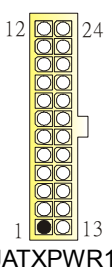

This connector allows system to monitor PC case open status. If the signal has been triggered, it will record to the CMOS and show the message on next boot-up.

JCI1		Pin	Assignment
1		1	Case open signal
2		2	Ground

### Power Connectors: JATXPWR1/PATXPWR2

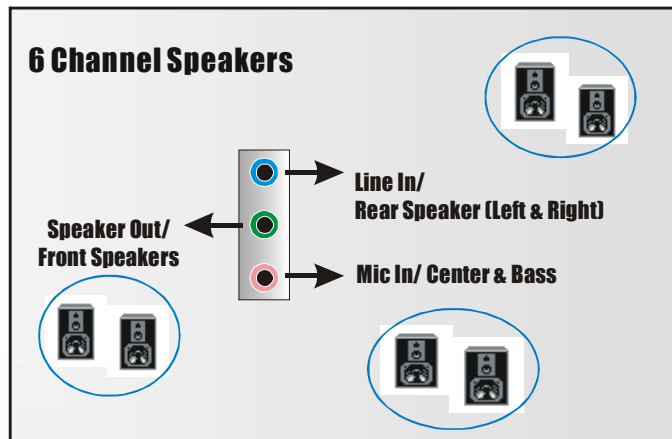
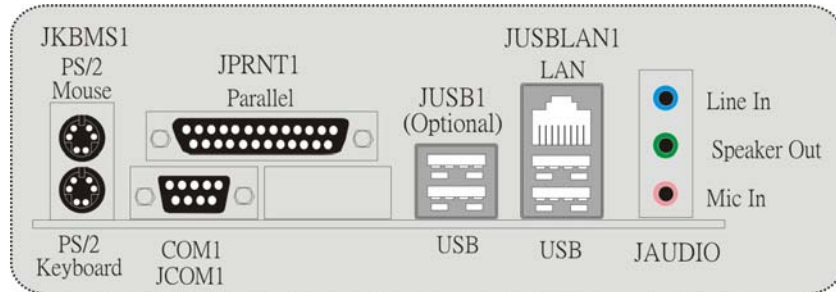
JATXPWR1: This connector allows user to connect with 20-pin power connector on the ATX power supply.

JATXPWR2: By connecting this connector, it will provide +12V to CPU power circuit.

JATXPWR1		Pin	Assignment	Pin	Assignment
		1	+3.3V	13	+3.3V
		2	+3.3V	14	-12V
		3	Ground	15	Ground
		4	+5V	16	PS_ON
		5	Ground	17	Ground
		6	+5V	18	Ground
		7	Ground	19	Ground
		8	PW_OK	20	-5V
		9	Standby Voltage +5V	21	+5V
		10	+12V	22	+5V
		11	+12V	23	+5V
		12	2 x 12 Detect	24	Ground
JATXPWR2		Pin	Assignment	Pin	Assignment
		1	+12V	3	Ground
		2	+12V	4	Ground

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### Back Panel Connectors



### 2.4 AWARD BIOS BEEP CODE

Beep Sound	Meaning
One long beep followed by two short beeps	Video card not found or video card memory bad
High-low siren sound	1. CPU overheated 2. System will shut down automatically
One Short beep when system boot-up	No error found during POST
Long beeps every other second	No DRAM detected or install

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### 2.5 TROUBLESHOOTING

Probable	Solution
<ol style="list-style-type: none"><li>1. No power to the system at all. Power light don't illuminate, fan inside power supply does not turn on.</li><li>2. Indicator light on keyboard does not turn on.</li></ol>	<ol style="list-style-type: none"><li>1. Make sure power cable is securely plugged in.</li><li>2. Replace cable.</li><li>3. Contact technical support.</li></ol>
System inoperative. Keyboard lights are on, power indicator lights are lit, and hard drive is spinning.	Using even pressure on both ends of the DIMM, press down firmly until the module snaps into place.
System does not boot from hard disk drive, can be booted from optical drive.	<ol style="list-style-type: none"><li>1. Check cable running from disk to disk controller board. Make sure both ends are securely plugged in; check the drive type in the standard CMOS setup.</li><li>2. Backing up the hard drive is extremely important. All hard disks are capable of breaking down at any time.</li></ol>
System only boots from optical drive. Hard disk can be read and applications can be used but booting from hard disk is impossible.	<ol style="list-style-type: none"><li>1. Back up data and applications files.</li><li>2. Reformat the hard drive. Re-install applications and data using backup disks.</li></ol>
Screen message says "Invalid Configuration" or "CMOS Failure."	Review system's equipment. Make sure correct information is in setup.
Cannot boot system after installing second hard drive.	<ol style="list-style-type: none"><li>1. Set master/slave jumpers correctly.</li><li>2. Run SETUP program and select correct drive types. Call the drive manufacturers for compatibility with other drives.</li></ol>

## **CHAPTER 3: WARPSPEEDER™**



### **3.1 INTRODUCTION**

[WarpSpeeder™], a new powerful control utility, features three user-friendly functions including Overclock Manager, Overvoltage Manager, and Hardware Monitor.

With the Overclock Manager, users can easily adjust the frequency they prefer or they can get the best CPU performance with just one click. The Overvoltage Manager, on the other hand, helps to power up CPU core voltage and Memory voltage. The cool Hardware Monitor smartly indicates the temperatures, voltage and CPU fan speed as well as the chipset information. Also, in the About panel, you can get detail descriptions about BIOS model and chipsets. In addition, the frequency status of CPU, memory, AGP and PCI along with the CPU speed are synchronically shown on our main panel.

Moreover, to protect users' computer systems if the setting is not appropriate when testing and results in system fail or hang, [WarpSpeeder™] technology assures the system stability by automatically rebooting the computer and then restart to a speed that is either the original system speed or a suitable one.

### **3.2 SYSTEM REQUIREMENT**

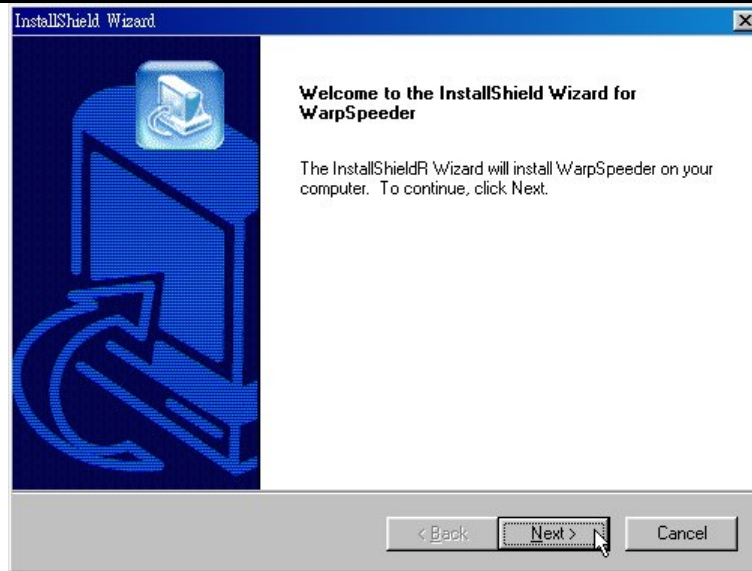
OS Support: Windows 98 SE, Windows Me, Windows 2000, Windows XP  
DirectX: DirectX 8.1 or above. (The Windows XP operating system includes DirectX 8.1. If you use Windows XP, you do not need to install DirectX 8.1.)

### **3.3 INSTALLATION**

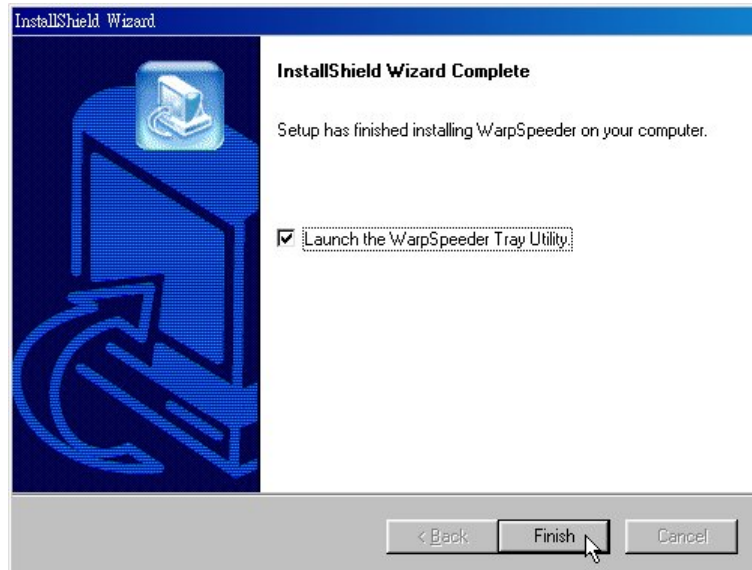
1. Execute the setup execution file, and then the following dialog will pop up. Please click "Next" button and follow the default procedure to install.



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2. When you see the following dialog in setup procedure, it means setup is completed. If the “Launch the WarpSpeeder Tray Utility” checkbox is checked, the Tray Icon utility and [WarpSpeeder™] utility will be automatically and immediately launched after you click “Finish” button.



### Usage:

The following figures are just only for reference, the screen printed in this user manual will change according to your motherboard on hand.

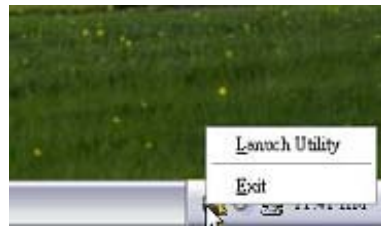
***[WarpSpeeder™] includes 1 tray icon and 5 panels:***

**1. Tray Icon:**

Whenever the Tray Icon utility is launched, it will display a little tray icon on the right side of Windows Taskbar.



This utility is responsible for conveniently invoking [WarpSpeeder™] Utility. You can use the mouse by clicking the left button in order to invoke [WarpSpeeder™] directly from the little tray icon or you can right-click the little tray icon to pop up a popup menu as following figure. The “Launch Utility” item in the popup menu has the same function as mouse left-click on tray icon and “Exit” item will close Tray Icon utility if selected.

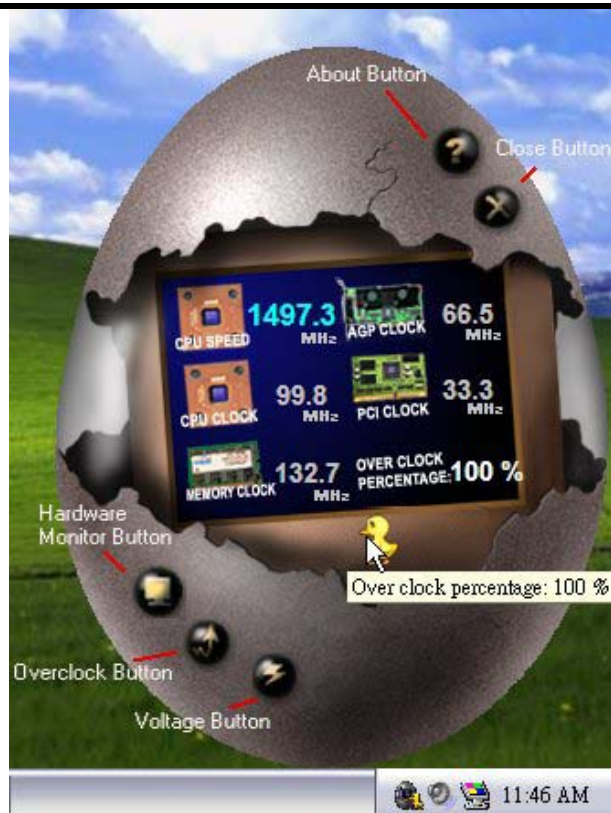


**2. Main Panel**

If you click the tray icon, [WarpSpeeder™] utility will be invoked. Please refer to the following figure; the utility's first window you will see is Main Panel.

**Main Panel contains features as follows:**

- a. Display the CPU Speed, CPU external clock, Memory clock, AGP clock, and PCI clock information.
- b. Contains About, Voltage, Overclock, and Hardware Monitor Buttons for invoking respective panels.
- c. With a user-friendly Status Animation, it can represent 3 overclock percentage stages:
  - Man walking→overclock percentage from 100% ~ 110 %
  - Panther running→overclock percentage from 110% ~ 120%
  - Car racing→overclock percentage from 120% ~ above



### 3. Voltage Panel

Click the Voltage button in Main Panel, the button will be highlighted and the Voltage Panel will slide out to up as the following figure.

In this panel, you can decide to increase CPU core voltage and Memory voltage or not. The default setting is "No". If you want to get the best performance of overclocking, we recommend you click the option "Yes".



**4. Overclock Panel**

Click the Overclock button in Main Panel, the button will be highlighted and the Overclock Panel will slide out to left as the following figure.



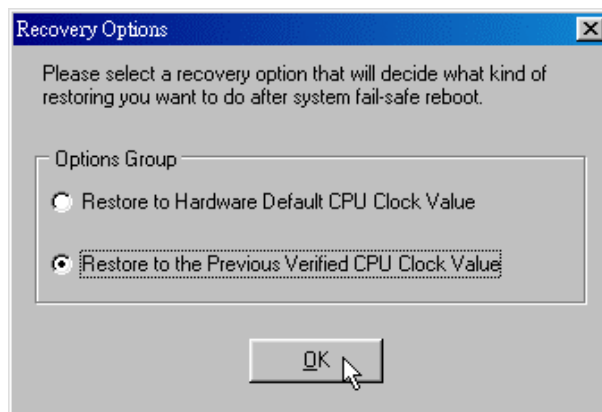
**Overclock Panel contains the these features:**

- a. “-3MHz button”, “-1MHz button”, “+1MHz button”, and “+3MHz button”: provide user the ability to do real-time overclock adjustment.

**Warning:**

Manually overclock is potentially dangerous, especially when the overclocking percentage is over 110 %. We strongly recommend you verify every speed you overclock by click the Verify button. Or, you can just click Auto overclock button and let [WarpSpeeder™] automatically gets the best result for you.

- b. “Recovery Dialog button”: Pop up the following dialog. Let user select a restoring way if system need to do a fail-safe reboot.



- c. “Auto-overclock button”: User can click this button and [WarpSpeeder™] will set the best and stable performance and frequency automatically. [WarpSpeeder™] utility will

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execute a series of testing until system fail. Then system will do fail-safe reboot by using Watchdog function. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

- d. "Verify button": User can click this button and [WarpSpeeder™] will proceed a testing for current frequency. If the testing is ok, then the current frequency will be saved into system registry. If the testing fail, system will do a fail-safe rebooting. After reboot, the [WarpSpeeder™] utility will restore to the hardware default setting or load the verified best and stable frequency according to the Recovery Dialog's setting.

### Note:

Because the testing programs, invoked in Auto-overclock and Verify, include DirectDraw, Direct3D and DirectShow tests, the DirectX 8.1 or newer runtime library is required. And please make sure your display card's color depth is High color (16 bit) or True color ( 24/32 bit ) that is required for Direct3D rendering.

### 5. Hardware Monitor Panel

Click the Hardware Monitor button in Main Panel, the button will be highlighted and the Hardware Monitor panel will slide out to left as the following figure.

In this panel, you can get the real-time status information of your system. The information will be refreshed every 1 second.



### 6. About Panel

Click the "about" button in Main Panel, the button will be highlighted and the About Panel will slide out to up as the following figure.

In this panel, you can get model name and detail information in

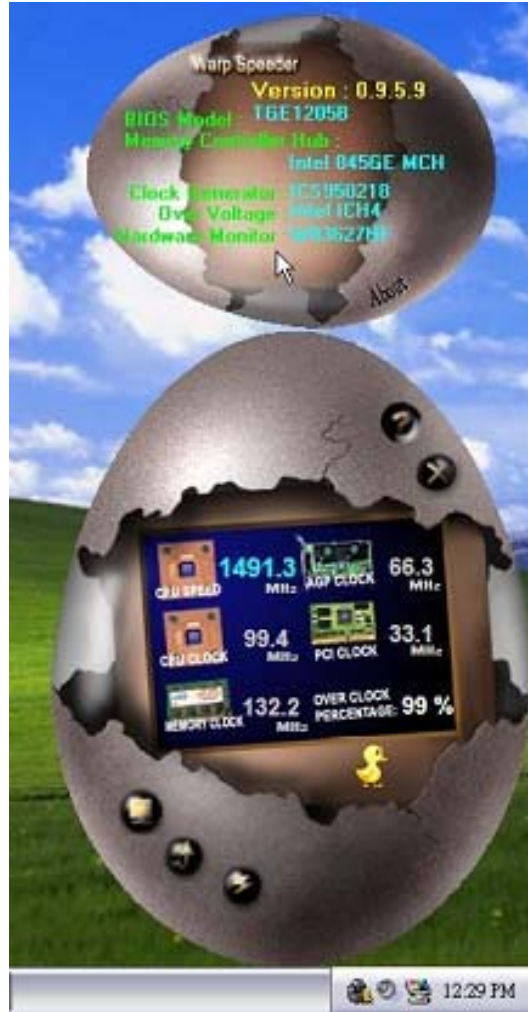


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hints of all the chipset that are related to overclocking. You can also get the mainboard's BIOS model and the Version number of [WarpSpeeder™] utility.



**Note:**

Because the overclock, overvoltage, and hardware monitor features are controlled by several separate chipset, [WarpSpeeder™] divide these features to separate panels. If one chipset is not on board, the correlative button in Main panel will be disabled, but will not interfere other panels' functions. This property can make [WarpSpeeder™] utility more robust.

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